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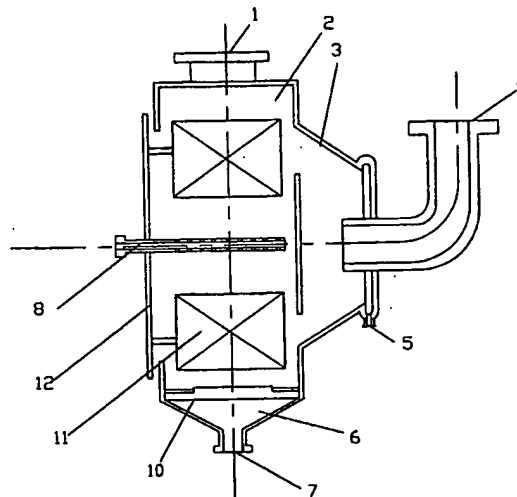
(51) 国际专利分类号 <sup>7</sup> : <b>B01D 3/30</b>		A1	(11) 国际公布号: <b>WO00/59599</b>
			(43) 国际公布日: <b>2000年10月12日(12.10.2000)</b>
(21) 国际申请号: <b>PCT/CN99/00114</b>		(81) 指定国: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO专利(GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI专利(BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG)	
(22) 国际申请日: <b>1999年8月12日(12.08.1999)</b>			
(30) 优先权: <b>99208429.6 1999年3月31日(31.03.1999) CN</b> <b>99105437.7 1999年4月6日(06.04.1999) CN</b>			
(71)(72) 发明人/申请人: 潘小军(PAN, Xiaojun) [CN/CN]; 王五一(WANG, Wuyi) [CN/CN]; 中国北京市 东城区 青年湖西里4 - 3 - 204, Beijing 100011 (CN).			
(74) 代理人: 北京三友专利代理有限公司(BEIJING SANYOU PATENT AGENCY CO., LTD.); 中国北京市 北三环中路40号, Beijing 100088 (CN).		本国际公布: 包括国际检索报告。	

(54) Title: SUPERGRAVITATIONAL FIELD VORTEX REACTOR AND THE USE THEREOF

(54) 发明名称: 涡流式超重力场反应装置及其应用

(57) Abstract

A supergravitational field vortex reactor, characterized in that there is at least one reaction chamber, which include an inlet for supply of continuous phase on the reaction chamber; a fix support within the reaction chamber, on which is provided with carrier to which the reactant can adhere, the inlet is disposed in tangential to the carrier; a liquid distributor disposed in the reaction chamber; a separation chamber on the downstream side of the final stage of the reaction chamber; an outlet for removal of continuous phase in the separation chamber; a baffle plate between the reaction chamber and the separation chamber; means for collecting liquid and a discharge opening at the bottom of the reactor. The present invention can be used for the reaction process comprising transfer between two or more phases, such as physical-chemical reaction between gas-liquid phases, liquid-liquid phases, or gas-liquid-solid phases.



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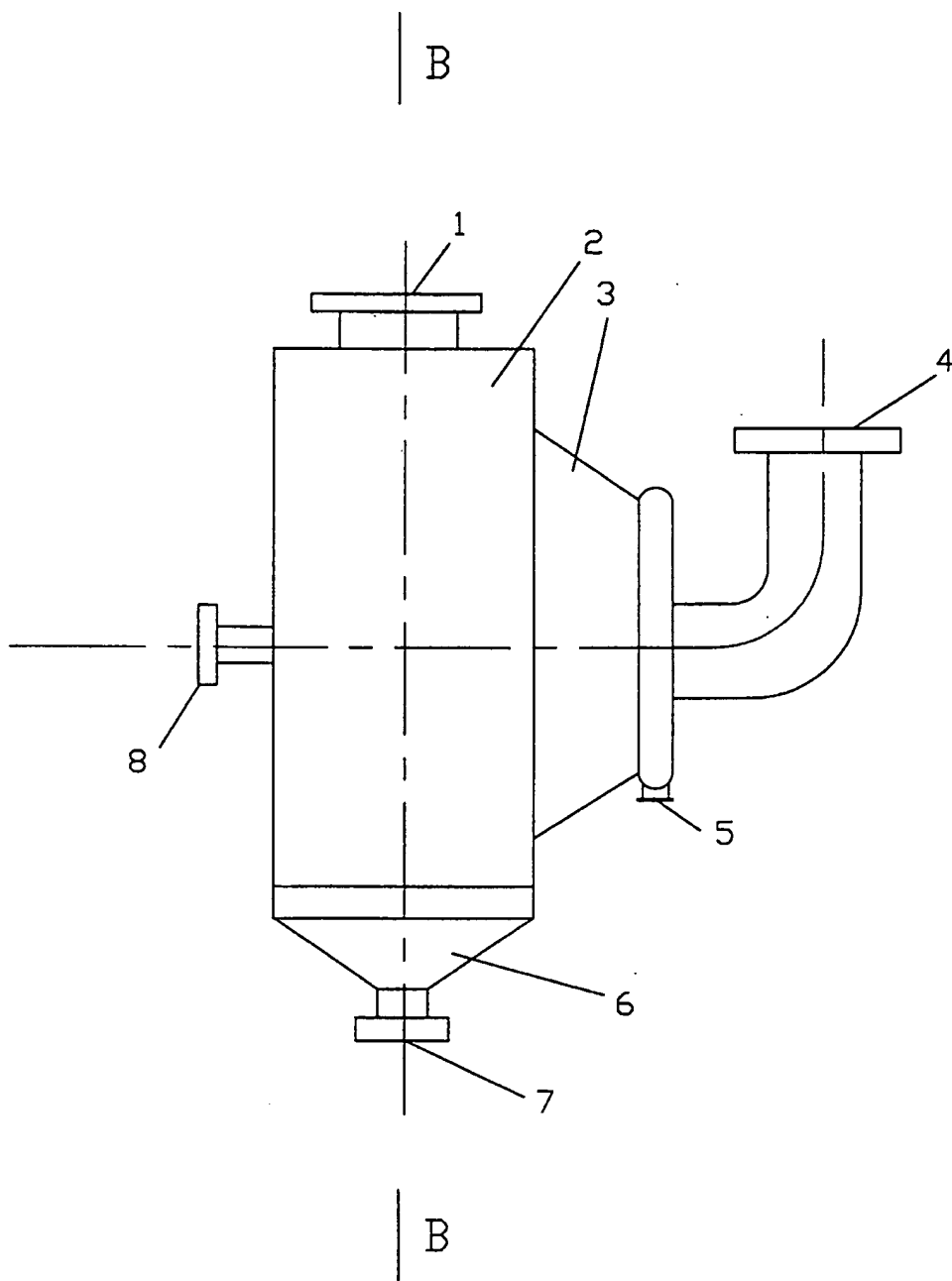


图1

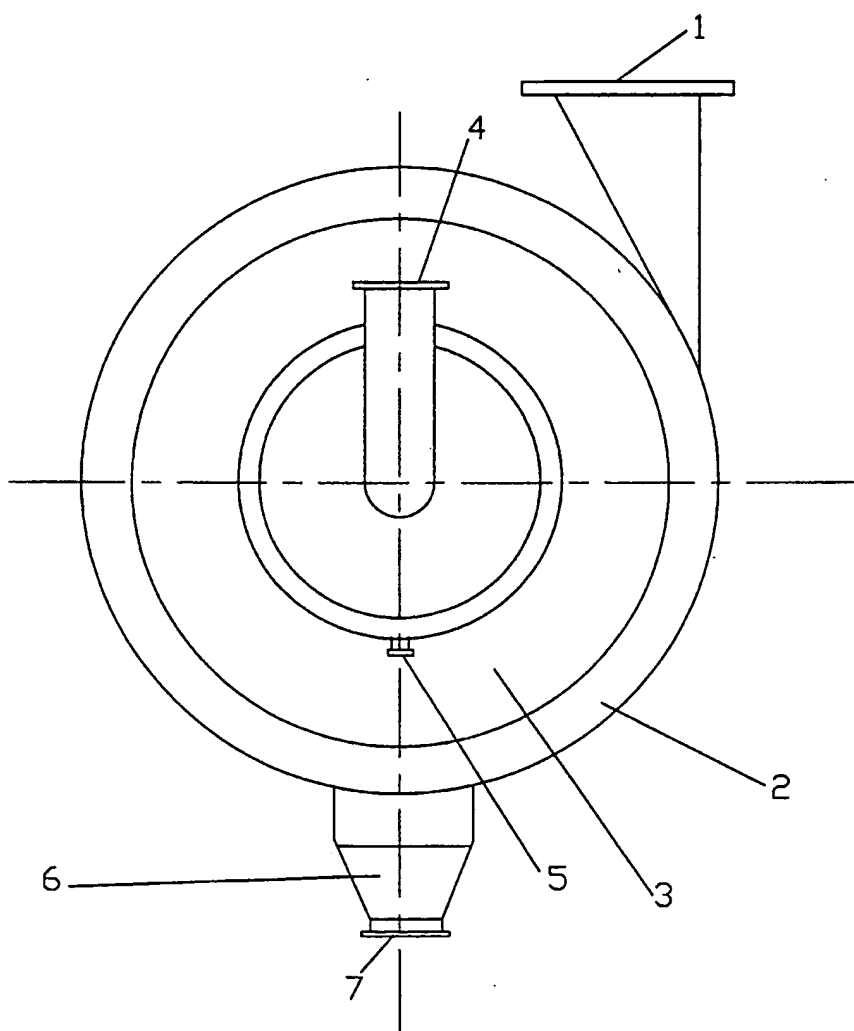


图1A

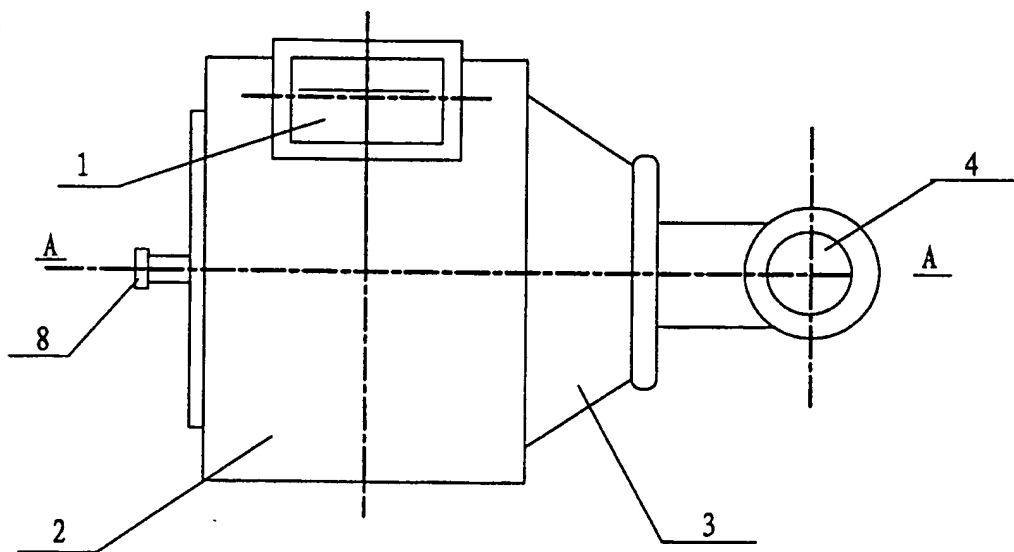


图 1B

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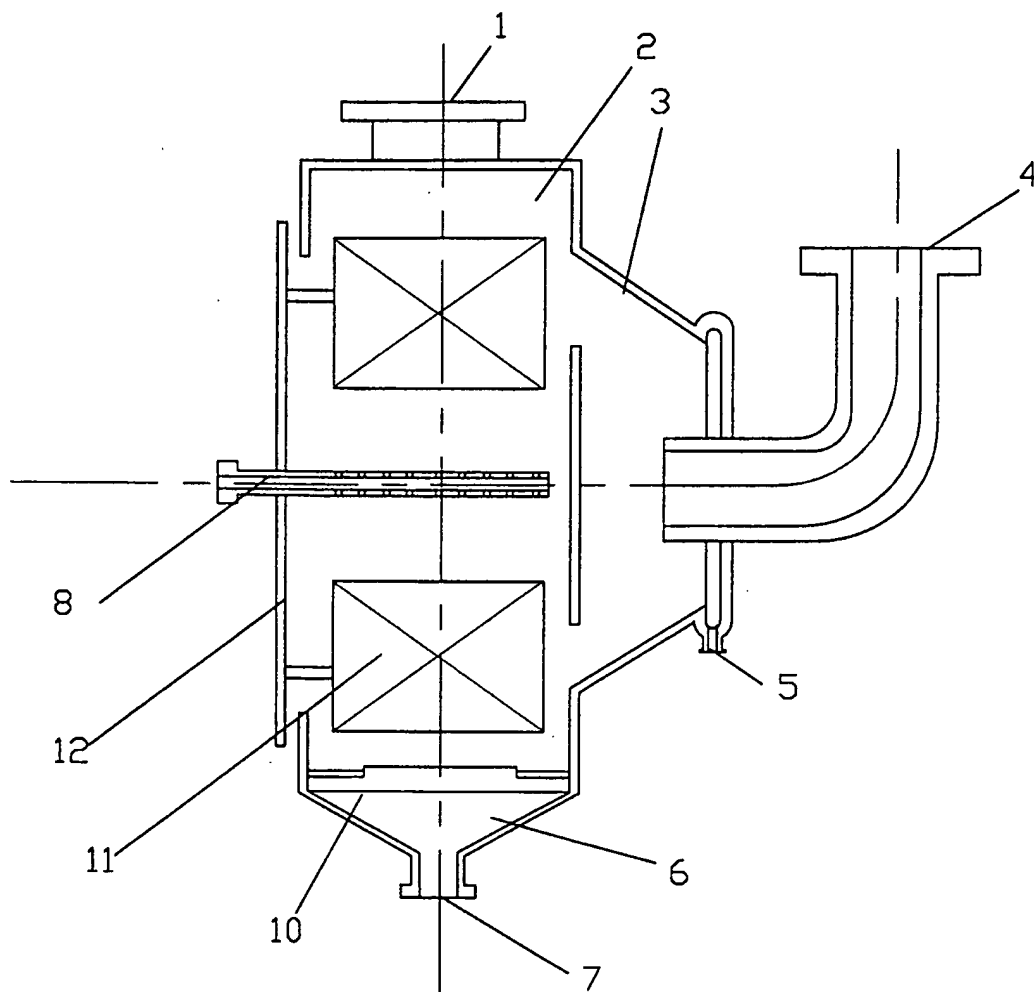


图2

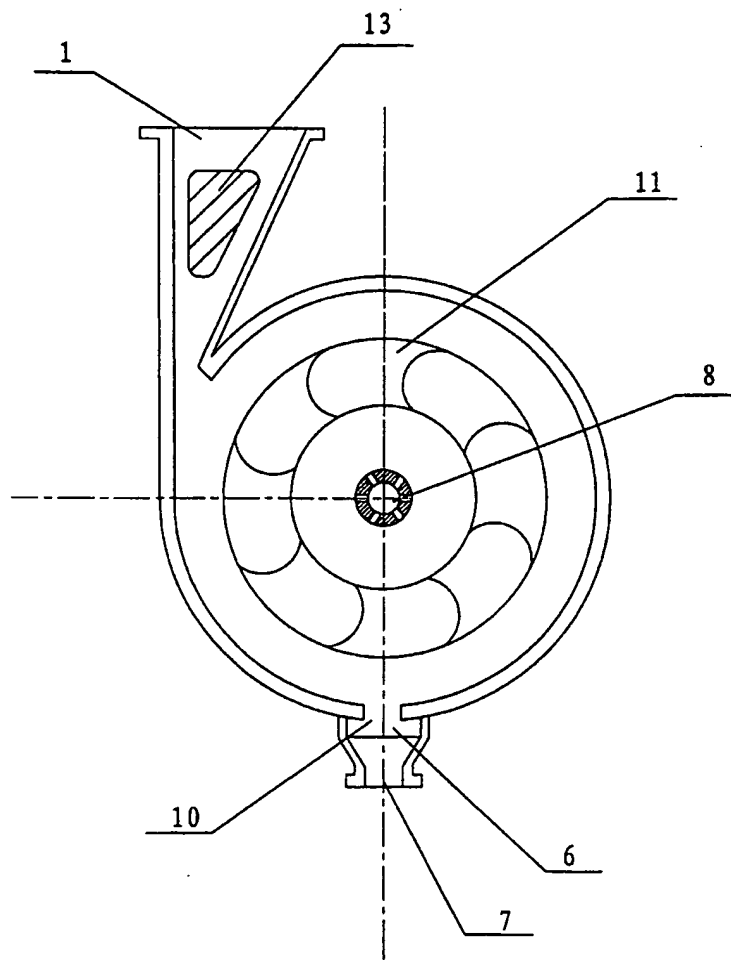


图3

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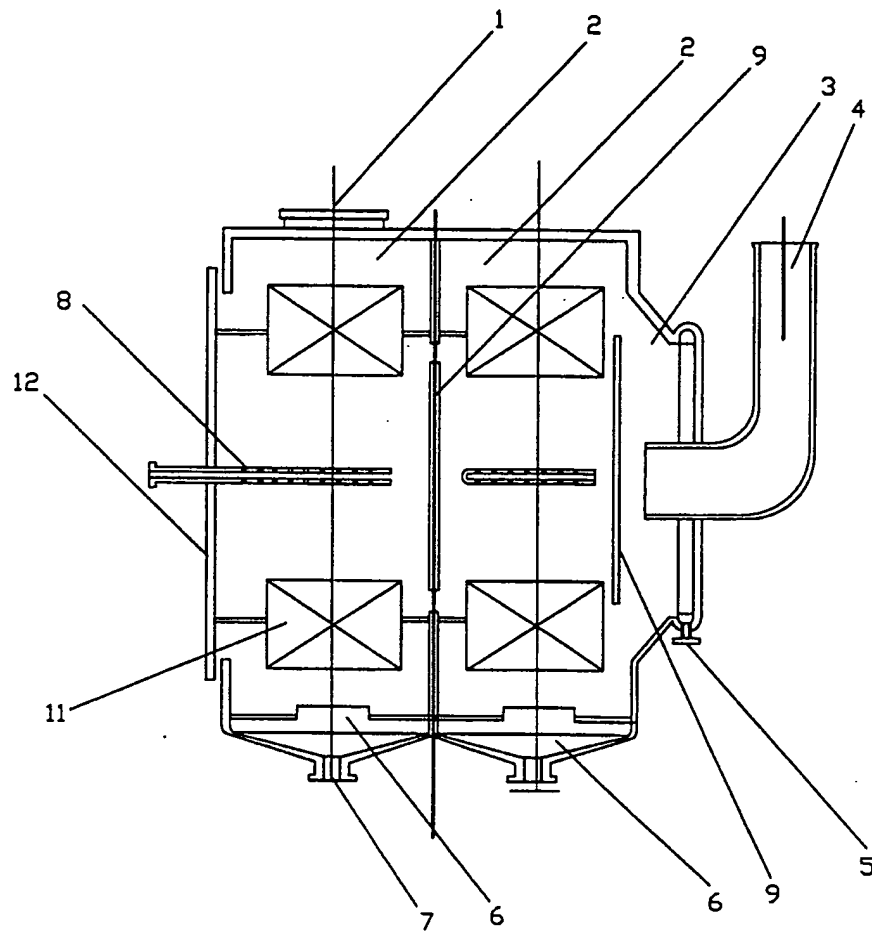


图 4

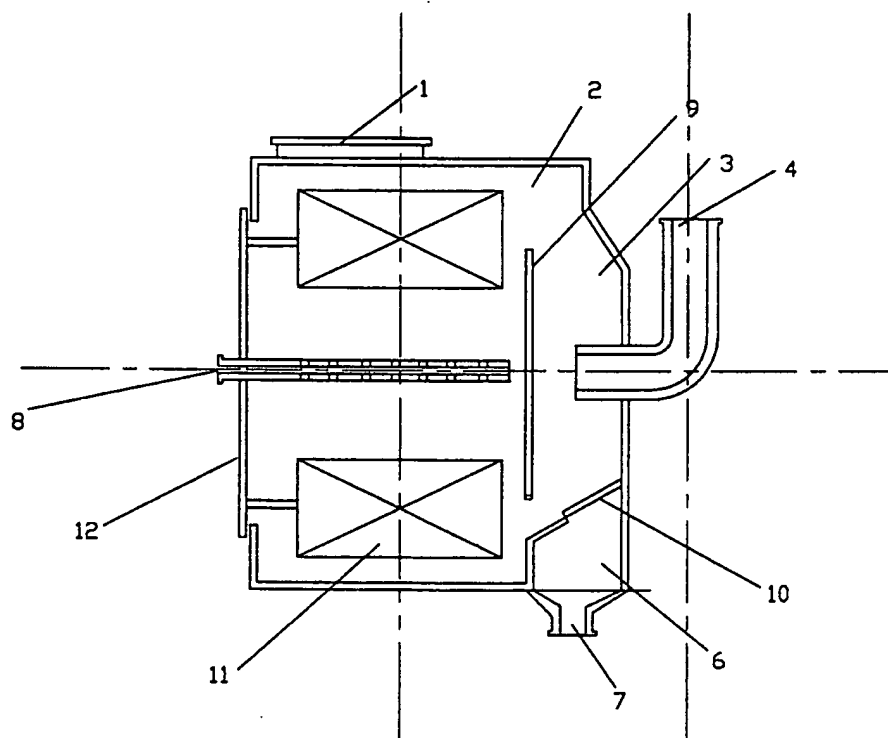


图5



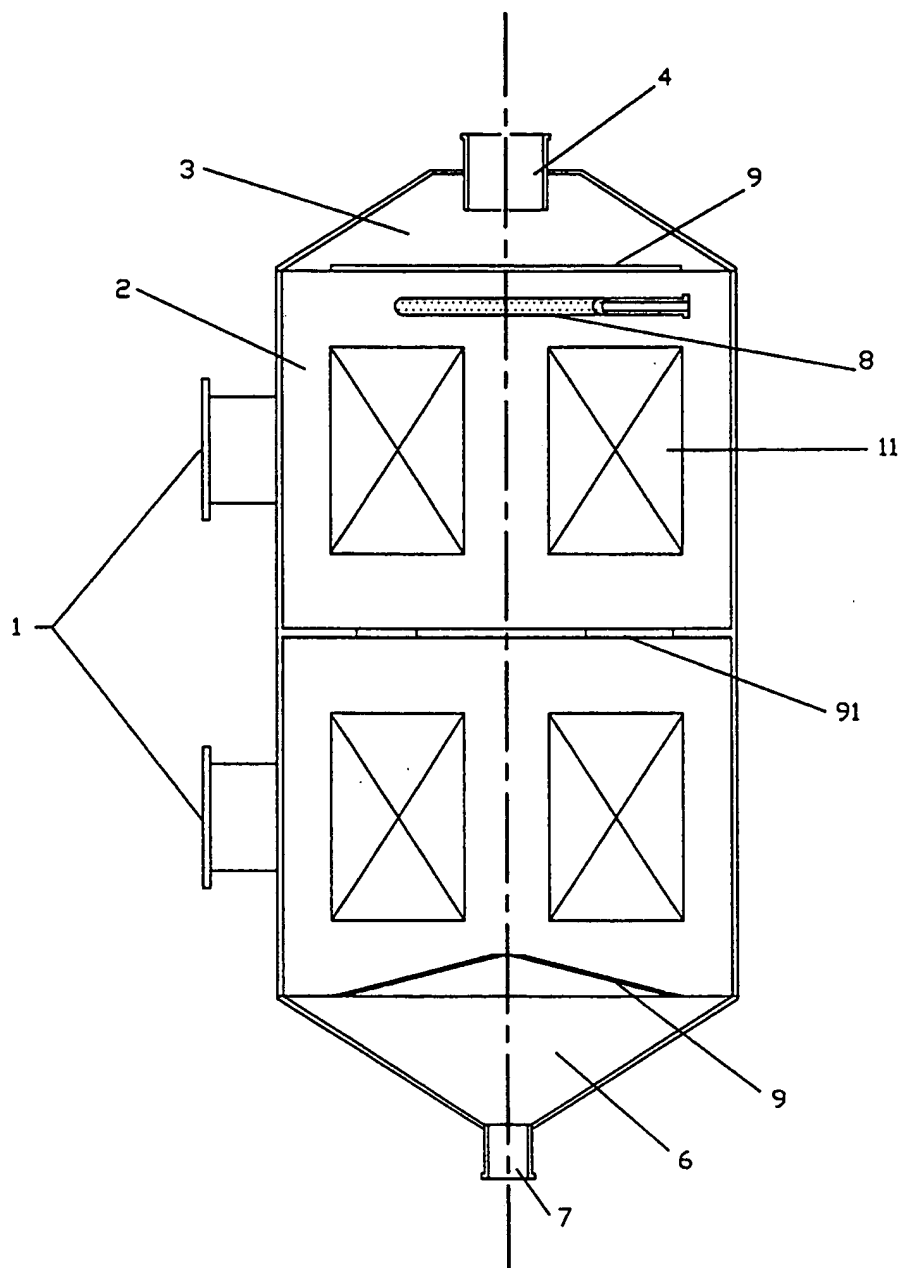


图6

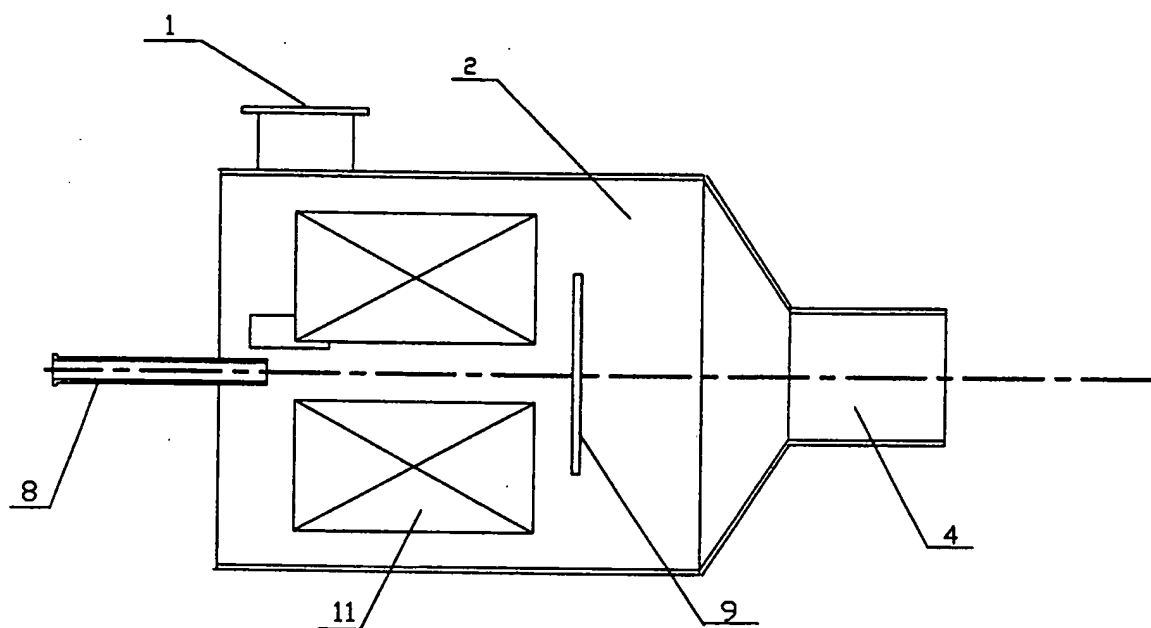


图7

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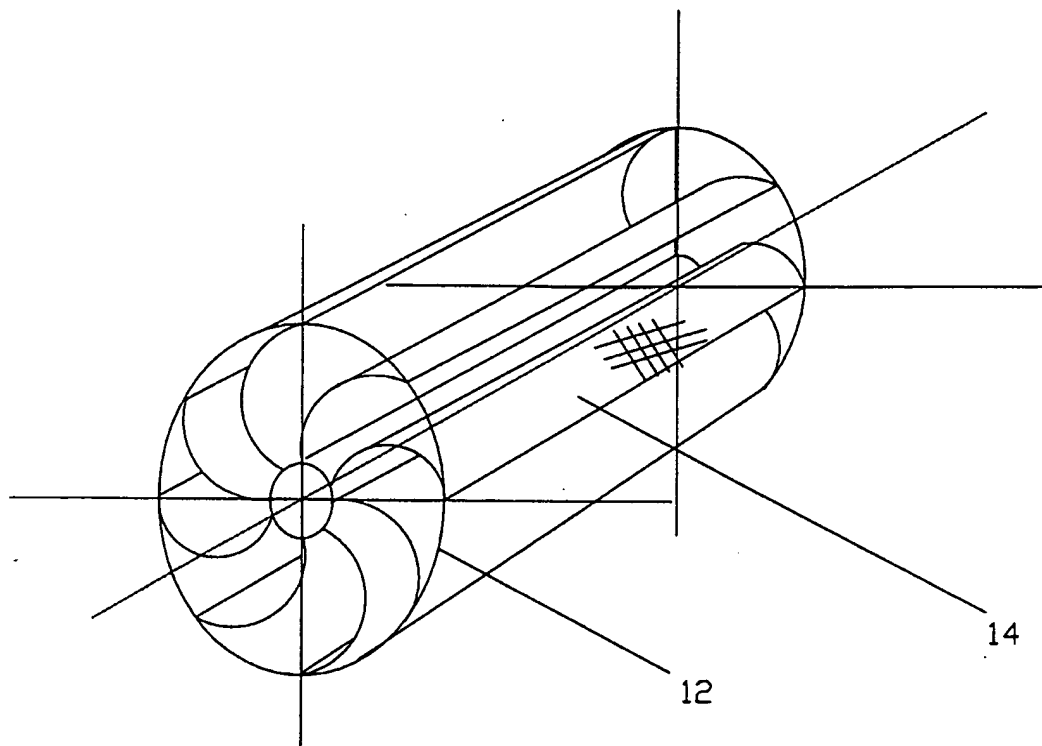


图 8

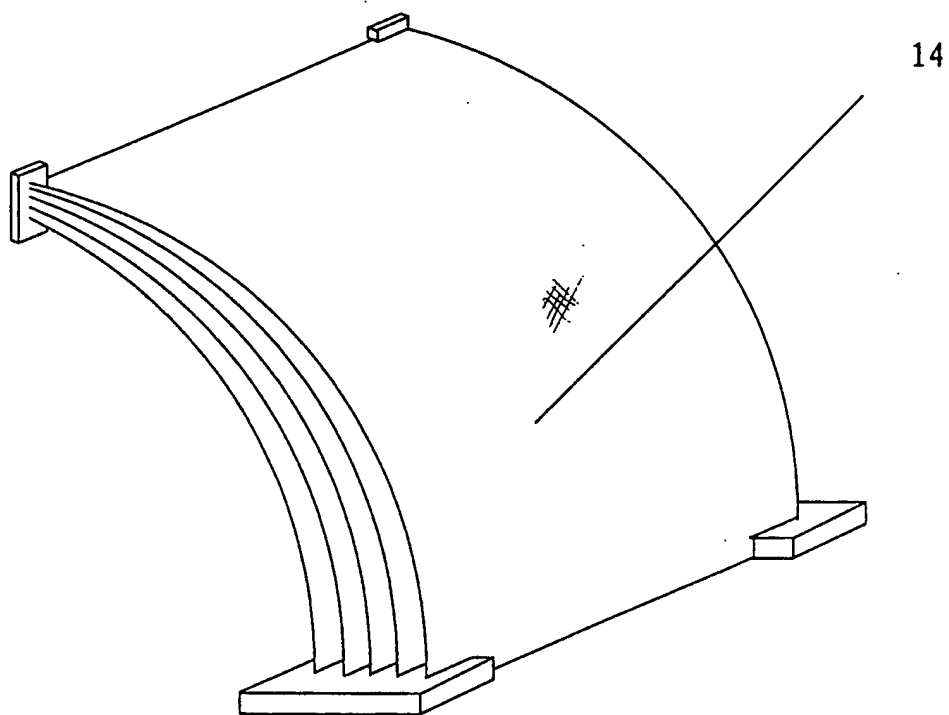


图9

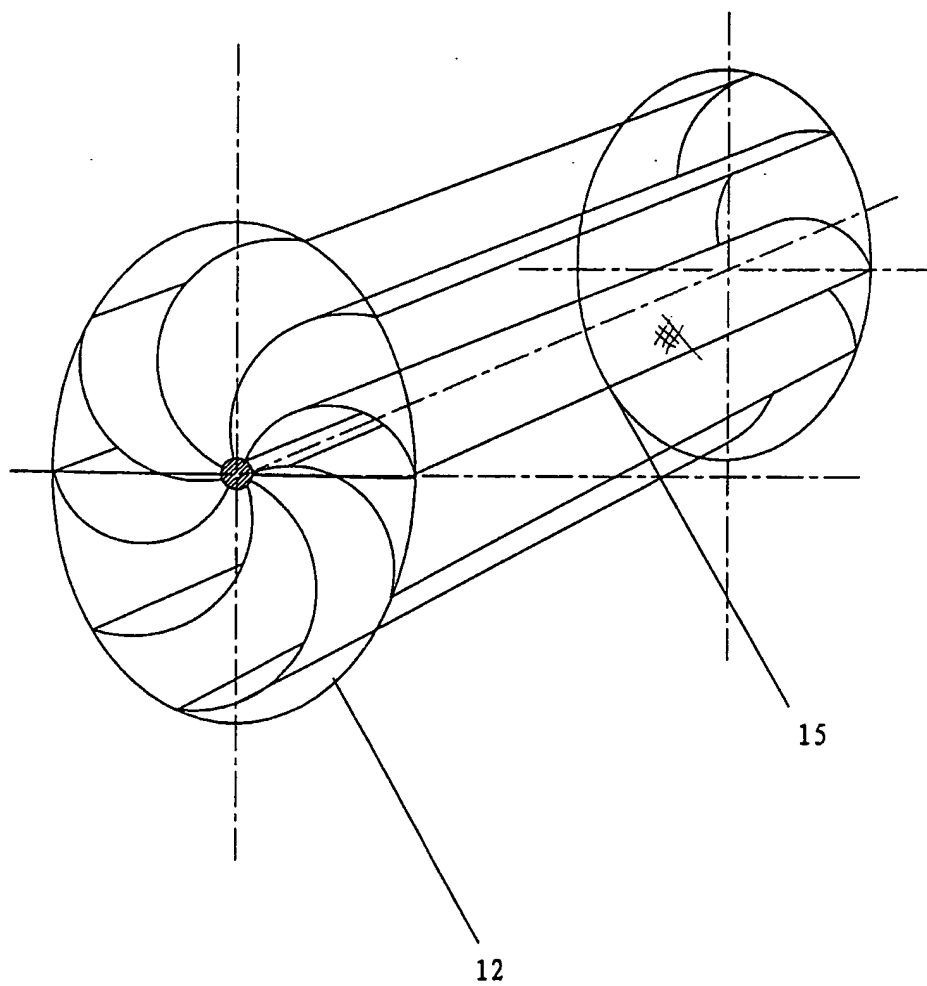


图 10

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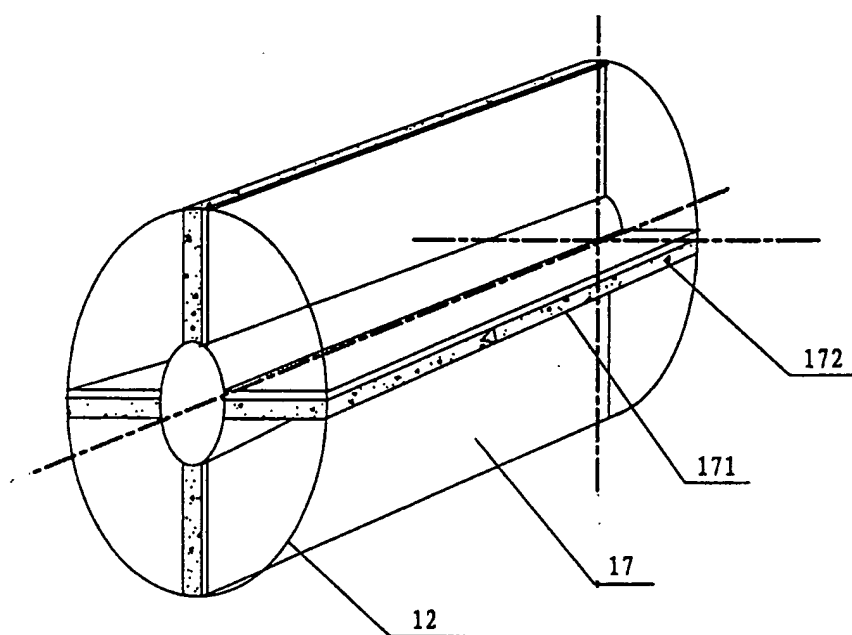


图 12

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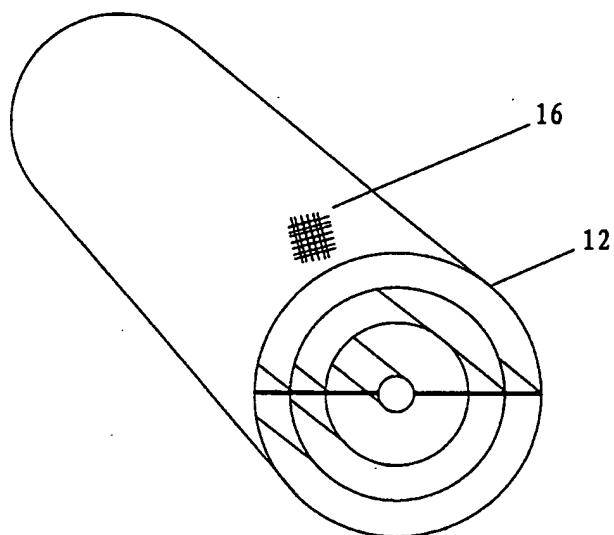


图11

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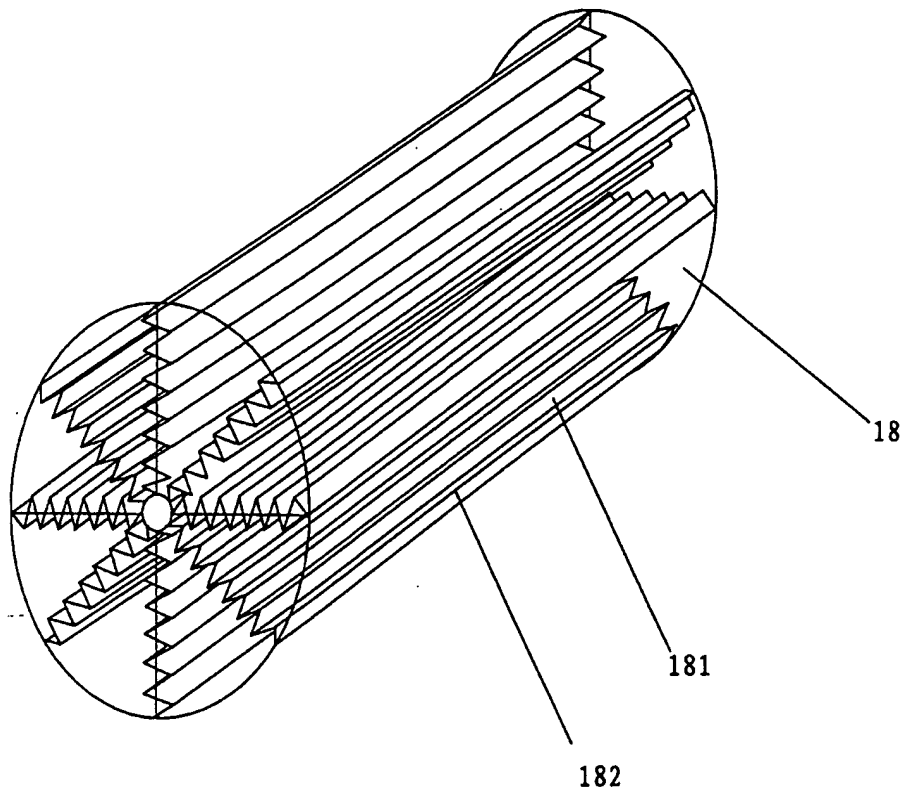


图13